acid (I; R = OH) are reported. The best results were found for the 3-furyl and 2-methoxy thiazol-5-yl analogs.

L35 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2000 ACS
AN 1996:19712 HCAPLUS
DN 124:164360
TI Antibacterial activity of a synthetic peptide (PR-26) derived from **PR-39**, a proline-arginine-rich neutrophil antimicrobial peptide
AU Shi, Jishu; Ross, Christopher R.; Chengappa, M. M.; Sylte, Matt J.; McVey, D. Scott; Blecha, Frank
CS Dep. Anat. Physiol., Kansas State Univ., Manhattan, KS, 66506, USA
SO Antimicrob. Agents Chemother. (**1996**), 40(1), 115-21
CODEN: AMACCQ; ISSN: 0066-4804
DT Journal
LA English
AB **PR-39** is a proline-arginine-rich (PR) neutrophil antibacterial peptide originally identified and purified from the porcine small intestine. We report on the synthesis of a functional antibacterial domain of **PR-39**, the first 26 amino acid residues of the NH2 terminus. PR-26 was as potent as or more potent than **PR-39** against enteric gram-neg. bacteria. This truncated form of **PR-39** potentiated neutrophil phagocytosis of Salmonella choleraesuis and decreased the level of S. typhimurium invasion into intestinal epithelial cells. SEM confirmed that these peptides did not lyse cells by pore-forming mechanisms; however, they potentiated the antibacterial capabilities of a pore-forming peptide, magainin A. In addn., PR-26 was not toxic to epithelial cells at concns. several times greater than its bactericidal concn. These data suggest that **PR-39** and its functional domain, PR-26, may potentiate the host's defense capabilities against gram-neg. infections.

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L49 ANSWER 1 OF 26 BIOSIS COPYRIGHT 2000 BIOSIS
AN 2000:440602 BIOSIS
DN PREV200000440602
TI **PR-39**, endogenous antimicrobial peptide derived from porcine neutrophils is capable binding PI3Kp85 and inhibits cell proliferation and modifies actin bundle structure in K-ras transformed cells.
AU Kohgo, Yutaka (1); Fujimoto, Yoshinori (1); Tanaka, Koji (1); Suzuki, Masako (1); Suzuki, Yasuaki (1); Saito, Hiroyuki (1); Ohtake, Takaaki (1)
CS (1) Third Department of Internal Medicine, Asahikawa Medical College, Asahikawa, Hokkaido Japan
SO Acta Haematologica (Basel), (July, 2000) Vol. 103, No. Supplement 1, pp. 30. print.
Meeting Info.: **13th Symposium on Molecular Biology of Hematopoiesis and Treatment of Leukemia and Cancer** New York, NY, USA July 14-18, 2000